

## SUBROUTINE RETURN SYSTEM

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### Abstract of JP58056153

PURPOSE: To increase a program running speed by selecting one of exits on the basis of the processing result of a subroutine, and making a data return. CONSTITUTION: A branch to a subroutine CHECK2 is caused by an instruction BAL and data to be checked is compared with normal character check data; when the checked data is the normal character data, a return from the subroutine to a normal character data return address X is made and a branch to character data processing A is caused by an instruction B. When not, it is compared with normal pattern check data; when it coincides with the normal pattern data, a return to a normal pattern data return address X+1 is made and a branch to pattern data processing B is caused by the instruction B. Similarly, a comparison with special order check data is made and when coincidence with the special order is not obtained, a return to an error data return address X+3 is made to cause a branch to error processing D.

